

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 15-609

PROJECT INFORMATION

Project Title: Catchment Redevelopment #725-Goldfiled Mountain #1

Region and Game Management Unit: Region 6, GMU 24B

Local Habitat Partnership Committee (LHPC):
• Payson HPC

Was the project presented to the LHPC?
YES[X] NO[]

Has this project been submitted in previous years? YES[] NO[X]

If Yes, was it funded? YES[] NO[] → **Funded HPC Project #(s):**

Project Type: Wildlife Water Catchment Redevelopment

Brief Project Summary:

This project would redevelop the existing catchment #725 which was built in 1968. The whole catchment is outmoded and receives unwanted attention due to the highly visible storage tank. The redeveloped catchment would hold 4 times the amount of water and the storage tanks would be hidden under the apron.

Big Game Wildlife Species to Benefit: Mule Deer (60%), Javelina (30%), Quail (10%)

Implementation Schedule (Month/Day/Year):

Project Start Date:
January 1, 2016

Project End Date:
January 1, 2018

Environmental Compliance:

NEPA Completed: Yes[] No[X] N/A[]

Projected Completion Date: _____

State Historic Preservation Office - Archaeological Clearance:

Yes[] No[X] N/A[]

Projected Completion Date: _____

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Kriselle Colvin

Projected Completion Date: March 2016

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 65,885.00

Cost Share or Matching Funds: \$ 4,000.00

Total Project Costs: \$ 69,885.00

PARTICIPANT INFORMATION

Applicant (please print):
Kriselle Colvin

Address:
7200 E. University Dr.
Mesa, AZ 85207

E-mail:
kcolvin@azgfd.gov

Telephone: 480-981-9400

Date: 08/26/2015

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with:

Tonto National Forest, AGFD Development Branch

NEED STATEMENT – PROBLEM ANALYSIS:

Catchment #725 was built in 1968, it has very limited storage capacity, needs ongoing repairs and is outmoded. The water storage for this tank is a 3700 gallon ring tank that sits above ground near the drinker which occasionally attracts the attention of vandals. This catchment is in a prime location and is used very frequently by mule deer, javelina, quail and possibly bighorn sheep moving between preferred habitat as well as other wildlife in the area. The catchment is outmoded and would benefit greatly from newer catchment technology, higher capacity and a lower profile that would not attract unwanted attention.

PROJECT OBJECTIVES:

- a) Retain water availability for mule deer, javelina and other wildlife in the Bulldog Canyon area of the Goldfield Mountains
- b) Use newer catchment technology and larger storage tanks to maximize water caught and stored
- c) Put the storage tanks underneath the new larger apron and put the walk in trough at ground level to be less visible and prevent tampering
- d) Replace old plumbing with new more durable plumbing that requires limited maintenance

PROJECT DESCRIPTION AND STRATEGIES:

- a) Completely redevelop existing catchment while staying in established footprint
- b) Remove old apron and exposed steel ring tank, then install four 2,500 gallon polyurethane tanks under the new larger 24'x 96' apron.
- c) Remove old concrete float box then replace with polyurethane walk-in trough
- d) Plumb with PVC and brass ball valves in valve boxes
- e) Enlarge existing piperail fence to larger standard size (optional)

PROJECT LOCATION:

Decimal Degrees 33.479414, -111.552971
Township 2N, Range 8E, Section 32

LAND OWNERSHIP AT THE PROJECT SITE(S):

(if the project area is private property, please state specifically and provide the landowner's name)

- Tonto National Forest

IF PRIVATE PROPERTY, IS THERE A COOPERATIVE BIG GAME STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[] N/A[]

HABITAT DESCRIPTION:

Sonoran Paloverde Mixed Cacti Desert Scrub

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

SBG Tag Funds Requested: \$65,885.00

Materials = \$ 30,885.00

4 Tanks – 2,500 gallon Polyethylene Water Storage = \$ 13,944.00 (\$ 3,486.00 each)

1 Apron – 24' X 96' Metal Frame and R-panel = \$ 7,715.00

1 Trough – Standard Polyethylene = \$ 4,690.00

1 Plumbing – 3" Sch80 PVC and 2 Brass Ball Valves= \$ 1,500.00

Fence – 150' X 150' Standard Piperail perimeter Fence = \$ 2,086.00

17 – Rubber mats for tank & trough support = \$ 950.00

Contractor/Labor = \$35,000.00

Cost Share or Matching Funds (for volunteer labor rates please refer to the worksheet below)

USFS: \$2,000

AZGFD: \$2,000

Contracted NEPA/Arch: 2,000

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Special Big Game Funds:

Provide funding for materials and contract labor

AGFD:

Development branch will pay for appropriate NEPA and arch clearances for redevelopment and access to site. Provide in-kind contributions in the form of labor for contract administration, project origination, and project coordination

USFS:

Provide administrative support in the form of necessary clearances

Provide letter of approval for implementation of project

Payson Natural Resources Committee:

Review project

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[] NO[] N/A[X]

PROJECT MONITORING PLAN:

The project proponent will monitor the project and coordinate with the Game and Fish Department development crew, BLM personnel and volunteers throughout the project. After completion, the catchment will be monitored at least 4 times a year with additional visits as needed during the dry summer months.

PROJECT MAINTENANCE:

The Development crew of the Arizona Game and Fish Department will provide maintenance as needed, coordinated by the area wildlife manager.

PROJECT COMPLETION REPORT TO BE FILED BY:

The project proponent will file the completion report.

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT TITLE: Catchment Redevelopment #725-Goldfield Mountain #1

- 1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"**
No
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Joe Currie Jun-Aug 2015
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
☐2-4 ☐4-6 ☐6-8 ☐8-10 ☐10-12 ☒12-14 ☐14-16 ☐ >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES☒ (please complete #5 below) NO☐ (skip #5 below)
There is a bighorn sheep catchment within 4 miles but it would not be accessible to mule deer due to the terrain.
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Goldfield #2
Type of water source (catchment, spring, dirt tank): Sheep Catchment
Ownership of water source: AGFD Catchment on Forest Service
Distance in miles from project: 1.75 Miles
- 6) **Is the target wildlife species a result of transplant efforts? YES☐ NO☒**
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
None
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): ☐2x4 vehicles ☒4x4 only ☐foot only**

**If foot access only: Distance in miles: _____ Approximate hiking time: _____

-- Does access to this site require crossing private or tribal lands? YES☐ NO☒

-- Please describe any restrictions to public access:

9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
The existing structures would be removed:
Concrete drinker
Steel Ring tank
Metal piping
Existing apron

Existing piperail fence (optional)

Those structures would be replaced with:

- 4 Tanks – 2,500 gallon Polyethylene Water Storage
- 1 Apron – 24' X 96' Metal Frame and R-panel
- 1 Trough – Standard Polyethylene
- 1 Plumbing – 3" Sch80 PVC and 2 Brass Ball Valve
- 17 – Rubber mats for tank & trough support
- Fence – 150' X 150' Standard Piperail perimeter Fence (optional)

10) Was a site visit completed? Yes[X] No[]

If Yes, please list personnel that attended and date.

Kriselle Colvin 07/26/2015, AGFD Development Crew 07/22/2015

ARIZONA GAME AND FISH DEPARTMENT

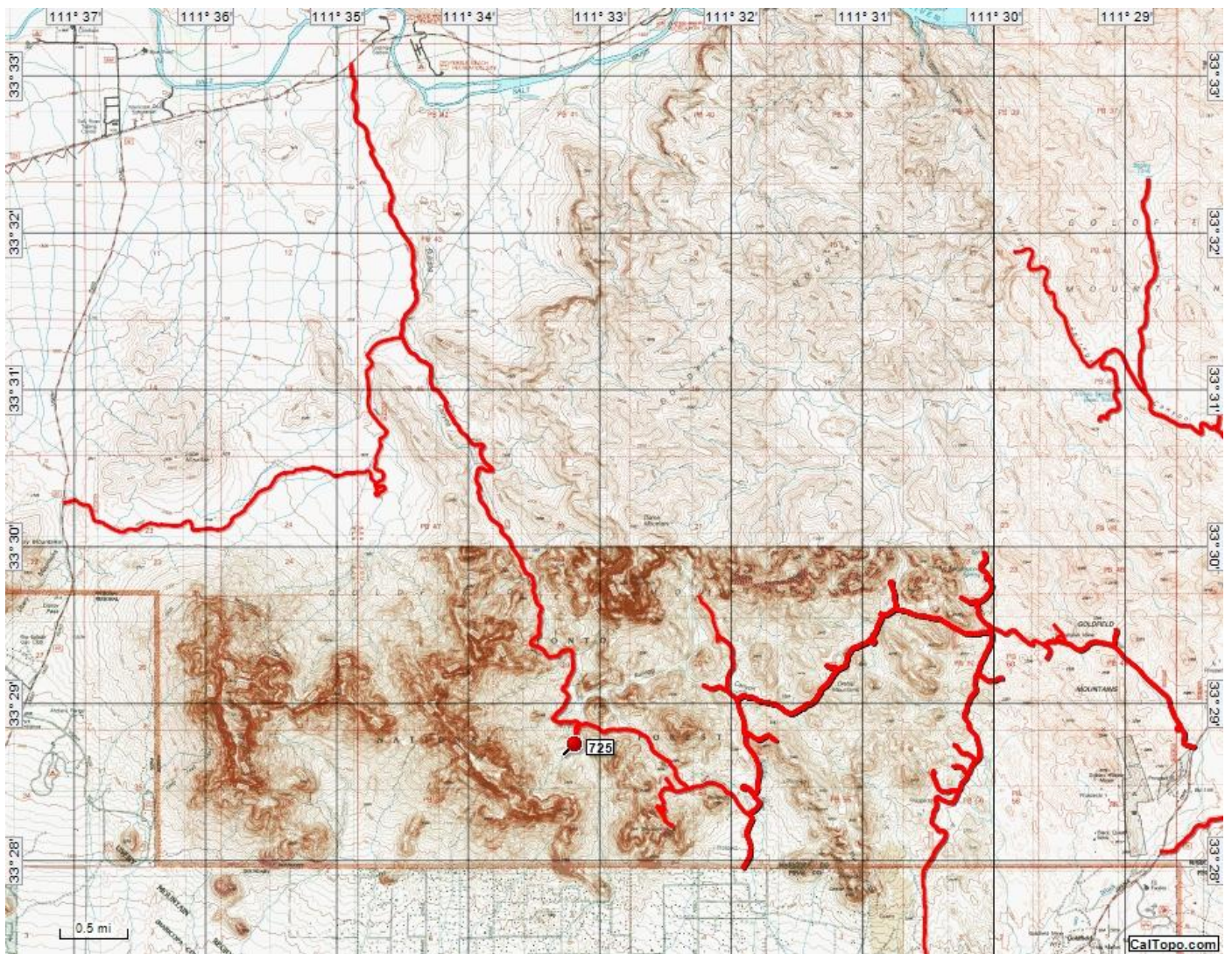
VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: Catchment Redevelopment #725-Goldfiled Mountain #1

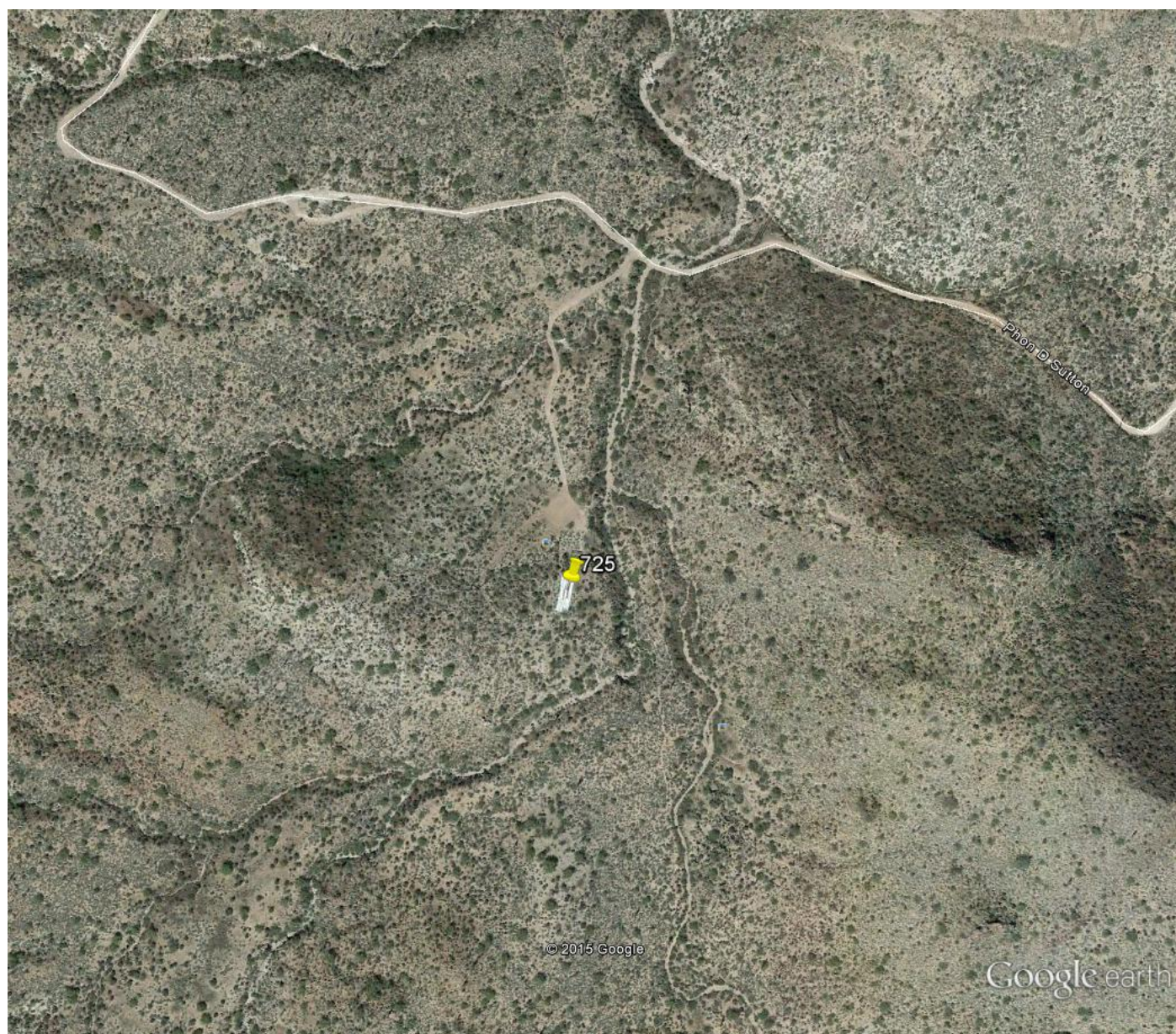
The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. http://www.hr.az.gov/HR_Professional/Class_Comp/PDF/alphacovered.pdf

\$0.445/mile should be the calculation used for mileage.

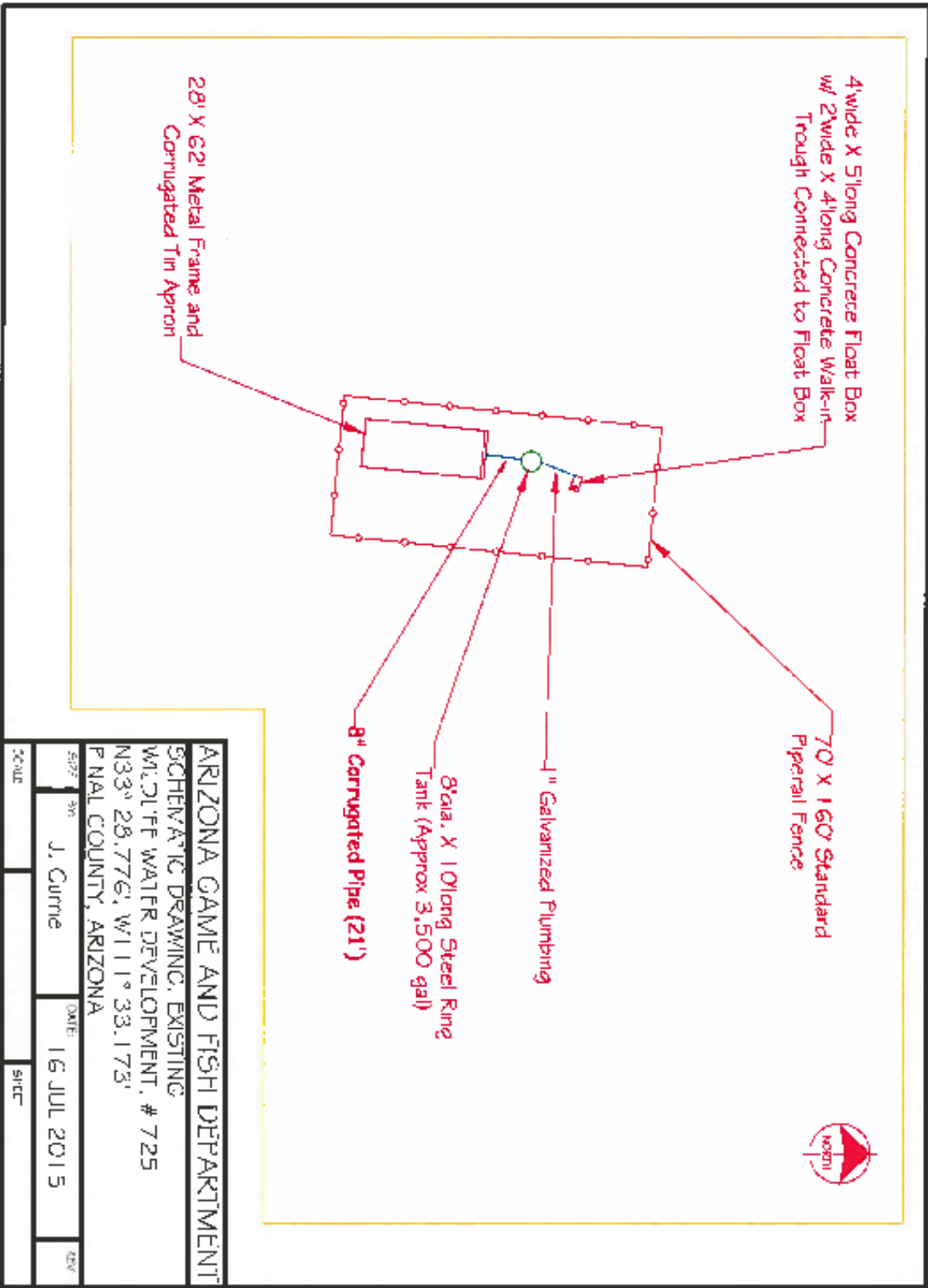
Water Development	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Habitat Restoration and Clean Up	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Fisheries	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Nongame Branch Project	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Misc/office work	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			varies	6,000.00
Community Services	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$7.44	
Events and Other	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Research Branch	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Wildlife Area Hosts	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$17.44	
Education Programs	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$16.07	
Totals				4,000.00



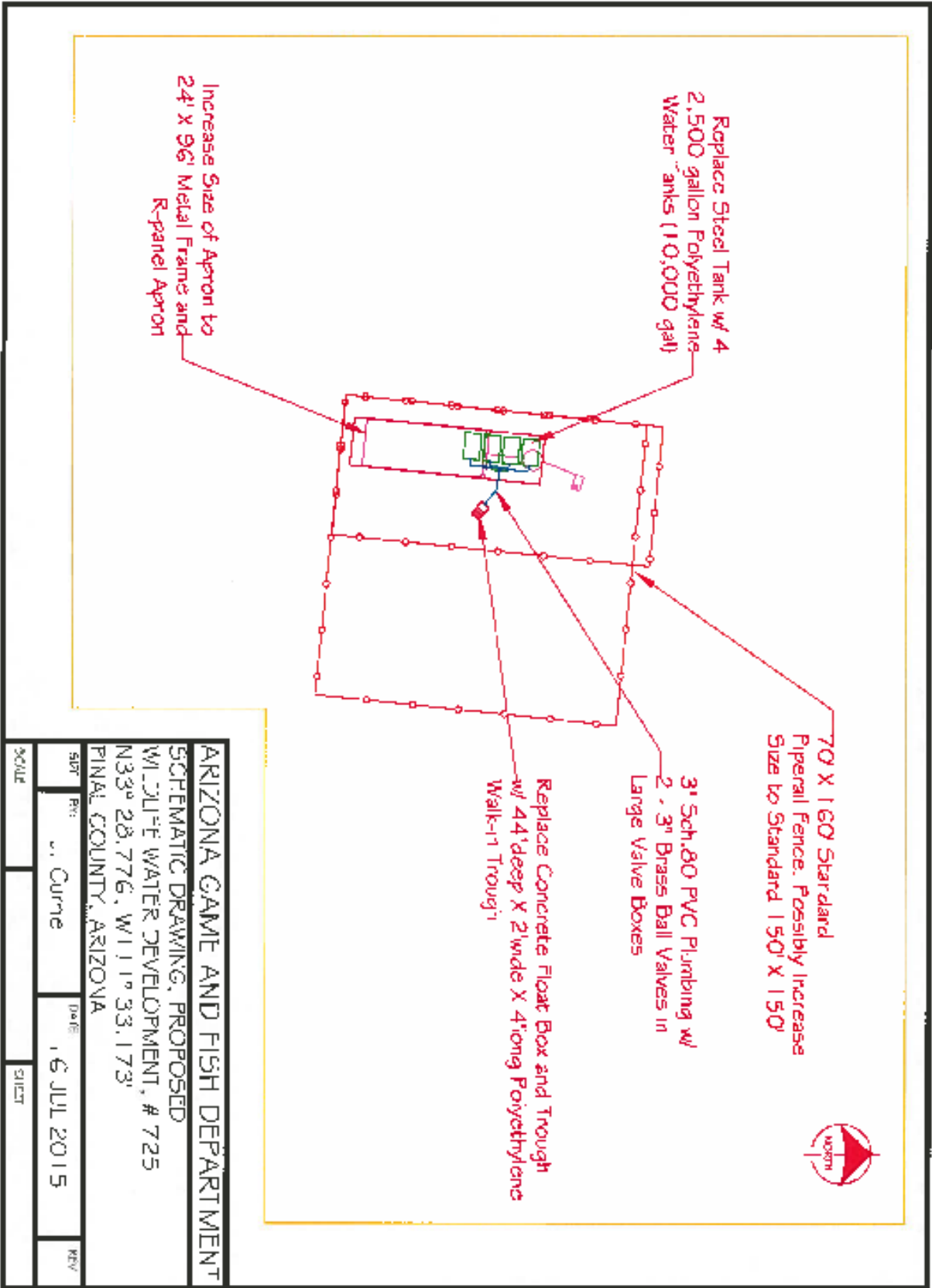
Attachment 1:
Location of Catchment #725
Goldfield Mountain #1



Attachment 2:
Google earth view of existing catchment



Attachment 3:
Layout of existing water catchment



Attachment 4:
Layout of proposed catchment



Attachment 5:
Photo of existing concrete trough and steel ring storage tank



Attachment 6:
Photo of existing drinker and storage tank



Attachment 7:
Photos of apron and storage tank



Attachment 8:
Photo of wildlife tracks coming to drinker from the west



Attachment 9:
Photo of wildlife tracks coming to drinker from the north